

International Conference - Environment at Crossroads: Smart Approaches for a Sustainable Future (ECOSMART 2015)

Procedia Environmental Sciences Volume 32

Bucharest, Romania
12 - 15 November 2015

Editors:

**Ioan-Cristian Ioja
Laura Comanescu
Liliana Dumitrache**

**Alexandru Nedelea
Mihai-Razvan Nita**

ISBN: 978-1-5108-3622-8

Printed from e-media with permission by:

Curran Associates, Inc.
57 Morehouse Lane
Red Hook, NY 12571



Some format issues inherent in the e-media version may also appear in this print version.

Copyright© by Elsevier B.V.
All rights reserved.

Printed by Curran Associates, Inc. (2017)

For permission requests, please contact Elsevier B.V.
at the address below.

Elsevier B.V.
Radarweg 29
Amsterdam 1043 NX
The Netherlands

Phone: +31 20 485 3911
Fax: +31 20 485 2457

<http://www.elsevierpublishingsolutions.com/contact.asp>

Additional copies of this publication are available from:

Curran Associates, Inc.
57 Morehouse Lane
Red Hook, NY 12571 USA
Phone: 845-758-0400
Fax: 845-758-2633
Email: curran@proceedings.com
Web: www.proceedings.com

Contents

Editorial

C.I. Iojă, L. Comănescu, A. Nedelea, L. Dumitrache, M.R. Niță	1
---	---

Section 1 - Protected areas management

Indicators for Environmental Conflict Monitoring in Natura 2000 Sites	
I.-C. Iojă, C.-A. Hossu, M.-R. Niță, D.-A. Onose, D.-L. Badiu, S. Manolache	4
The Assessment of Regulatory Ecosystem Services: The Case of the Sediment Retention Service in a Mountain Landscape in the Southern Romanian Carpathians	
S.-M. Bogdan, I. Pătru-Stupariu, L. Zaharia	12
Evaluating the Functional Connectivity of Natura 2000 Forest Patch for Mammals in Romania	
M.-I. Niculae, M.R. Nita, G.O. Vanau, M. Patroescu	28
Governance of Sustainable Tourism in a Vast Area Surrounding a National Park	
G. Benedetto, D. Carboni, G.L. Corinto	38
Non-invasive Monitoring of Organohalogen Compounds in Eggshells and Feathers of Birds from the Lower Prut Floodplain Natural Park in Romania	
M.L. Matache, C. Hura, I.G. David	49
Wetlands—As Significant Features of the Salt Karst Landscape in the Meledic Plateau, Vrancea Subcarpathians, Romania	
D. Strat	59
Assessing Public Perception on Protected Areas in Iron Gates Natural Park	
C.M. Ciocănea, C. Sorescu, M. Ianoși, V. Bagrinovschi	70

Section 2 - Urban ecology

Arguments for Integrative Management of Protected Areas in the Cities—Case Study in Bucharest City	
G. Manea, E. Matei, I. Vijulie, L. Tîrlă, R. Cuculici, O. Cocos, A. Țișcovschi	80
Microclimate Modification by Urban Shade Trees—An Integrated Approach to Aid Ecosystem Service Based Decision-making	
Á. Takács, M. Kiss, A. Hof, E. Tanács, Á. Gulyás, N. Kántor	97
Assessing the Fragmentation of the Green Infrastructure in Romanian Cities Using Fractal Models and Numerical Taxonomy	
A.-I. Petrișor, I.C. Andronache, L.E. Petrișor, A.-M. Ciobotaru, D. Peptenatu	110
Peri-urban Areas and Land Use Structure in Romania at LAU2 Level: An Exploratory Spatial Data Analysis	
C. Lincaru, D. Atanasiu, V. Ciucă, S. Pirciog	124
Census-based Social Vulnerability Assessment for Bucharest	
I. Armaș, A. Gavriș	138
Monitoring Pollution Level in Railroad Right-of-Way	
A.K. Strelkov, S.V. Stepanov, S.Yu. Teplykh, A.M. Sargsyan	147
Urban Landscape Quality Index—Planning Tool for Evaluating Urban Landscapes and Improving the Quality of Life	
A.A. Gavrilidis, C.M. Ciocănea, M.R. Niță, D.A. Onose, I.I. Năstase	155
A Brief Analysis of the Sustainable Mobility Approach in Bucharest	
B.A. Magdalena	168
Assessment of GSM HF-Radiation Impact Levels within the Residential Area of Craiova City	
I.E. Marinescu, C. Poparlan	177
Evolutionism. Logic, Language and Thought. On the “Miraculous” Order of the World	
A. Anghelescu	184

Section 3 - Land suitability assessment

Floods and Public Perception on their Effect. Case Study: Tecuci Plain (Romania), Year 2013	
L. Comănescu, A. Nedelea	190
High Resolution Landscape Change Analysis with CORONA KH-4B Imagery. A Case Study from Iron Gates Reservoir Area	
B. Mihai, C. Nistor, L. Toma, I. Săvulescu	200
Using Natural Tracers to Track the Groundwater Flow in a Mining Area	
A.I. Cozma, C. Baci, M. Moldovan, I.-C. Pop	211
Comparison of Multi-Temporal Differential Interferometry Techniques Applied to the Measurement of Bucharest City Subsidence	
M. Gheorghe, I. Armaș	221

Erosion and Use of the Coast in the Northern Sardinia (Italy) S. Ginesu, D. Carboni, M. Marin	230
Mapping Land Cover Using Remote Sensing Data and GIS Techniques: A Case Study of Prahova Subcarpathians M.-R. Rujoiu-Mare, B.-A. Mihai	244
Man-made Changes of the Relief Due to the Mining Activities within Husnicioara Open Pit (Mehedinți County, Romania) S. Boengiu, O. Ionuș, E. Marinescu	256
A New Approach to the Land Capability Classification: Case Study of Turkey I. Atalay	264
A Hydrometric and Hydrological Approach Test at Microscale G. Minea, M.-J. Adler, G. Pătru	275
Study on the Evaporation and Evapotranspiration Measured on the Căldărușani Lake (Romania) F.-I. Stan, G. Neculau, L. Zaharia, G. Ioana-Toroimac, S. Mihalache	281
Section 4 - Workshop Geography of health spatial disparities and inequities in health and medical assistance	
Contrasting Clustering in Health Care Provision in Romania: Spatial and Aspatial Limitations L. Dumitrache, M. Nae, D. Dumbrăveanu, G. Simion, B. Suditu	290
The Relationship between Health Care Needs and Accessibility to Health Care Services in Botosani County- Romania T.E. Ursulica	300
Influence of Population Lifestyle on Local Health Profile. Case Study: Ialomita County A.-M. Taloș	311
Geographical Distribution of Avoidable Hospital Conditions in Romania M. Ciutan, S.G. Scîntee, M. Dosiuc, C. Mototolea, C. Vlădescu	318
Potentially Life-threatening Vascular Events (Myocardial and Cerebral Infarction) - Geographical Distribution and Temporal Evolution in Romania C. Sasu, M. Ciutan, S.-G. Scîntee, S. Mușat, R. Diaconescu	327
Section 5 - Social and economical sustainability	
An Exploratory Analysis of the Profitability of Small and Medium Firms Using Panel Data: The Case of the Greater Bucharest Metropolitan Area C. Vâlsan, E. Druică, R.-D. Pintilii	337
Using Fractal Analysis in Modeling Trends in the National Economy I.C. Andronache, D. Peptenatu, A.-M. Ciobotaru, A.K. Gruia, N.M. Gropoșilă	344
Semi-subsistence Farming Development in a Carpathian Declining Mining Area. A Microscale Study of Landowners' Perception: Stulpicani Commune, Romania E. Matei, D. Vasilcu, G. Manea, O. Cocoș, R. Cuculici, I. Vijulie, D. Matei	352
Tourism, Basic Functionality versus Complementary Component of the Territorial Systems in Romania R.-D. Pintilii, D. Peptenatu, A. Grecu, A.-M. Ilie, A.-G. Simion	364
Revival of the Rice Crops in the South of Romania: Pros and Cons I. Vijulie, G. Manea, L. Tîrlă, E. Matei, M. Preda, R. Cuculici	373
Health Tourism Contribution to the Structural Dynamics of the Territorial Systems with Tourism Functionality C.C. Drăghici, D. Diaconu, C. Teodorescu, R.-D. Pintilii, A.-M. Ciobotaru	386
Correlations between Traffic Noise and Accommodation Units Location in Craiova (Romania) C. Vîlcea, M. Licurici, O. Ionuș	394
A Model of Development Strategy Encompassing Creative Industries to Reduce Visual Pollution—Case Study: Strada Franceză, Bucharest's Old City A.-L. Cercleux, F.-C. Merciu, G.-L. Merciu	404
Vernacular and Technology. InBetween M. Hărmănescu, C. Enache	412
The Assessment of Social and Economic Impacts Associated to an Abandoned Mining Site. Case Study: Ciudanovita (Romania) M. George-Laurentiu, M. Florentina-Cristina, C. Andreea-Loreta	420